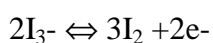


**FORMAL POTENTIAL OF
ELECTROPHILIC
BROMINE/BROMIDE SYSTEM
REVISTED**

Inam-Ul-Haque
Department of Chemistry
University of Engineering and
Technology
263-J, DHA
Lahore 54792 Pakistan

It is shown that potentiometric titration curve of aqueous iodide solution with N-bromosuccinimide yields a value for the formal potential of the bromonium/bromide system 1.1V vs. NHE in aqueous acetic acid solution in agreement with that reported in the literature. The first derivative of the curve featured a second much lower in height peak corresponding to the redox reaction



In acetonitrile containing small amounts of water, the formal potential of the bromonium/bromide system was estimated to be about 1.1V vs. NHE. This value of the redox potential was measured by noting the potential difference across the two electrodes of a cell constituted from platinum indicating electrode and a silver wire quasi reference electrode.